

=> d his

(FILE 'HOME' ENTERED AT 18:53:08 ON 27 JAN 2003)  
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 18:53:16 ON 27 JAN 2003

L1 21 S HIV 1 BRU  
L2 8 S HUMAN IMMUNODEFICIEN? VIRUS 1 (L) BRU  
L3 68 S HIV 1 (L) BRU  
L4 70 S L1-L3  
L5 93 S (HIV OR HUMAN IMMUNODEFICIEN?) (L) BRU  
L6 93 S L4,L5  
E MONCANY M/AU  
L7 18 S E3-E7  
E MONTAGNIER L/AU  
L8 258 S E3,E4,E5  
L9 1 S L6 AND L7,L8  
E US6194142/PN  
L10 1 S E3  
E US5786177/PN  
L11 1 S E3  
E US5688637/PN  
L12 1 S E3  
E FR90-393/AP, PRN  
E FR89-7354/AP, PRN  
L13 1 S E3,E4  
E FR89-12371/AP, PRN  
L14 1 S E3,E4  
E WO 90-FR393/AP, PRN  
L15 1 S E3,E4  
L16 1 S L7,L8 AND L10-L15  
L17 1 S L7 AND L8  
L18 2 S L9-L17  
L19 92 S L6 NOT L18  
SEL RN L18  
SEL RN L19  
DEL SEL  
SEL RN L18

FILE 'REGISTRY' ENTERED AT 19:01:20 ON 27 JAN 2003  
L20 70 S E1-E70

FILE 'HCAPLUS' ENTERED AT 19:01:22 ON 27 JAN 2003  
L21 SET SMARTSELECT ON  
SEL L19 1- RN : 493 TERMS  
SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 19:01:24 ON 27 JAN 2003  
L22 492 S L21  
L23 68 S L20 AND SQL/FA  
L24 68 S L23 AND NUCLEIC/FS  
L25 418 S L22 AND SQL/FA  
L26 127 S L25 AND NUCLEIC/FS  
L27 4 S L26 AND (HIV OR HUMAN IMMUNODEF?)  
L28 36 S L25 AND BRU  
L29 1 S L26 AND L28  
L30 35 S L28 NOT L27,L29  
L31 20 S L30 AND RNA  
L32 89 S L24,L31,L29  
L33 3 S L27 NOT L32

FILE 'HCAPLUS' ENTERED AT 19:04:51 ON 27 JAN 2003  
L34 15 S L32

Jan Delaval  
Reference Librarian  
Biotechnology & Chemical Library  
CM1 1E07 - 703-308-4498  
jan.delaval@uspto.gov

L35 4 S L34 AND (PY<=1990 OR PRY<=1990 OR AY<=1990)  
L36 1 S L35 AND L7,L8  
L37 5 S L18,L35,L36  
L38 4 S L37 AND L1-L19  
L39 5 S L37,L38

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 19:06:18 ON 27 JAN 2003

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FILE COVERS 1907 - 27 Jan 2003 VOL 138 ISS 5

FILE LAST UPDATED: 26 Jan 2003 (20030126/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all tot 139

L39 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 1993:253135 HCAPLUS

DN 118:253135

TI In vitro non-productive infection of purified natural killer cells by the **BRU** isolate of the **human immunodeficiency** virus type 1

AU Scott-Algara, Daniel; Vuillier, Francoise; Cayota, Alfonso; Rame, Veronique; Guetard, Denise; **Moncany, Maurice L.**; Marasescu, Monica; Dauguet, Charlie; Dighiero, G.

CS Unite ImmunoHematol. Immuno Pathol., Inst. Pasteur, Paris, F-75724, Fr.

SO Journal of General Virology (1993), 74(4), 725-31

CODEN: JGVIAY; ISSN: 0022-1317

DT Journal

LA English

CC 15-8 (Immunochemistry)

AB Highly purified natural killer (NK) cell lines and clones, displaying the typical phenotype, morphol. and function and obtained from healthy blood donors, were infected in vitro with the **BRU** isolate of **human immunodeficiency** virus type 1 (**HIV-1**). There was no significant increase in reverse transcriptase activity and level of p24 antigen in the supernatants, but pos. staining was obsd. using an immunogold technique with polyclonal anti-**HIV-1** antibodies. When infected NK cell were co-cultivated with autologous noninfected CD4+ mitogen-activated cells, significant levels of reverse transcriptase activity and p24 antigen in supernatants were detected. Giant syncytial cells and a high no. of mature virion particles were also evident. When NK cell lines or clones from **HIV-1**-infected patients were studied, neither the presence of p24 antigen nor reverse transcriptase activity was detected in the supernatants after stimulation with mitogens, cytokines or co-culture with allogeneic CD4+ mitogen-activated cells. PCR studies did not detect

HIV-1 genes in freshly purified NK cells, cell lines or clones from infected patients. These results suggest that (i) normal NK cells can be infected in vitro by the HIV-1

BRU isolate in a non-productive fashion, (ii) PCR with NK cell DNA of HIV-1-infected patients indicates that in vivo few of these cells, if any, are infected by HIV-1, and (iii) the mechanisms responsible for the impairment of NK cell function during HIV-1 infection remain to be detd. and are probably not related to a direct cytopathic effect of the virus.

ST natural killer cell infection HIV virus

IT Virus, animal

(human immunodeficiency 1, nonproductive infection by, of natural killer cells)

IT Lymphocyte

(natural killer cell, infection, with HIV-1 virus, nonproductive)

L39 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 1992:440411 HCAPLUS

DN 117:40411

TI thiolated oligo- and polynucleotides for treating HIV infections

IN Bardos, Thomas J.; Ho, Yau Kwan; Aradi, Janos; Schinazi, Raymond F.

PA State University of New York, Albany, USA

SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K031-00

CC 1-5 (Pharmacology)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9203127	A1	19920305	WO 1991-US5919	19910815 <--
	W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MN, MW, NL, NO, PL, RO, SD, SE, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	AU 9184971	A1	19920317	AU 1991-84971	19910815 <--

PRAI US 1990-568131 19900816 <--

WO 1991-US5919 19910815

AB The title compds. are therapeutically effective for inhibiting HIV-1 infections and for treating AIDS. The nucleotides used are 5-mercaptopoly(C), 5-mercaptopoly(dC), 5-mercaptopoly(U), and 5-mercaptopoly(dU) contg. 2-30% thiolation, the corresponding 4 oligonucleotides contg. 3-10% thiolation, or a regional sense or anti-sense 5-thiolated oligonucleotide corresponding to at least a portion of a primer tRNA (esp. tRNA<sup>Lys</sup>) of HIV reverse transcriptase. Thus, poly[U91,[5-mercapto-(U)]9] showed a 50% inhibitory concn. of 9 .mu.M against HIV-1 in infected human lymphocytes in vitro as evaluated morphol., by indirect immunofluorescence, and by reverse transcriptase activity. The thiolated oligo- and polynucleotides were prepd. by chem. or enzymic synthesis or by partial thiolation with NaSH of partial alk. hydrolyzates of poly(C) or poly(U).

ST human immunodeficiency virus thiolated polynucleotide; oligonucleotide thiolated HIV inhibition; nucleotide thiolated HIV inhibition

IT Ribonucleic acids, transfer

RL: BIOL (Biological study)

(primer, for reverse transcriptase of human immunodeficiency virus, thiolated oligonucleotide from, human immunodeficiency virus inhibition with)

IT Virucides and Virustats

(thiolated oligo- and polynucleotides, for human immunodeficiency virus)

IT Virus, animal

(human immunodeficiency, inhibition of, with thiolated oligo- and polynucleotides)

IT Virus, animal  
(human immunodeficiency 1, inhibition of, with thiolated oligo- and polynucleotides)

IT Ribonucleic acids, transfer  
RL: BIOL (Biological study)  
(lysine-specific, primer, for reverse transcriptase of human immunodeficiency virus, thiolated oligonucleotide from, human immunodeficiency virus inhibition with)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, thiolated, human immunodeficiency virus inhibition with)

IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(poly-, thiolated, human immunodeficiency virus inhibition with)

IT 25609-92-1D, Polydeoxycytidylic acid, 5-thiolated 27416-86-0D, Polyuridylic acid, 5-thiolated 30811-80-4D, Polycytidylic acid, 5-thiolated 35297-30-4D, Polydeoxyuridylic acid, 5-thiolated 127712-01-0D, partially 5-thiolated 135115-35-4D, partially 5-thiolated 142461-55-0D, partially 5-thiolated 142461-56-1D, partially 5-thiolated  
RL: BIOL (Biological study)  
(human immunodeficiency virus inhibition with)

IT 9068-38-6, Reverse transcriptase  
RL: BIOL (Biological study)  
(tRNA primer for, of human immunodeficiency virus, thiolated oligonucleotide from, human immunodeficiency virus inhibition with)

L39 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 1991:529158 HCAPLUS

DN 115:129158

TI Nucleotide sequences of retroviral genomes of human immunodeficiency virus 1 (HIV-1), HIV-2, and simian immunodeficiency virus (SIV), their uses for the amplification of these genomes and diagnosis in vitro of these viral infections

IN **Moncany, Maurice; Montagnier, Luc**

PA Institut Pasteur, Fr.; Institut National de la Sante et de la Recherche Medicale (INSERM)

SO Eur. Pat. Appl., 24 pp.  
CODEN: EPXXDW

DT Patent

LA French

IC ICM C07H021-04  
ICS C12Q001-70; C12Q001-68; A61K039-21; G01N033-569; A61K039-42; A61K031-70

ICA C12N015-49

CC 3-5 (Biochemical Genetics)  
Section cross-reference(s): 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 403333	A2	19901219	EP 1990-401520	19900605 <--
	EP 403333	A3	19911121		
	EP 403333	B1	19991006		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	FR 2647809	A1	19901207	FR 1989-7354	19890602 <--
	FR 2647809	B1	19910920		
	FR 2652091	A1	19910322	FR 1989-12371	19890920 <--
	FR 2652091	B1	19940722		
	CA 2062829	AA	19901203	CA 1990-2062829	19900605 <--
	WO 9015066	A2	19901213	WO 1990-FR393	19900605 <--
	WO 9015066	A3	19910418		

W: CA, JP, US

JP 04507043	T2	19921210	JP 1990-508911	19900605 <--
EP 806484	A2	19971112	EP 1997-110543	19900605 <--
EP 806484	A3	20000913		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

AT 185379	E	19991015	AT 1990-401520	19900605 <--
ES 2139567	T3	20000216	ES 1990-401520	19900605 <--
JP 2000093187	A2	20000404	JP 1999-270165	19900605 <--
US 5688637	A	19971118	US 1993-160465	19931202 <--
US 5786177	A	19980728	US 1997-895231	19970716 <--
US 6194142	B1	20010227	US 1998-92077	19980605 <--

PRAI FR 1989-7354 A 19890602 <--  
 FR 1989-12371 A 19890920 <--  
 FR 1989-7954 A 19890602 <--  
 EP 1990-401520 A3 19900605 <--  
 JP 1990-508911 A3 19900605 <--  
 WO 1990-FR393 W 19900605 <--  
 US 1992-820599 B1 19920121  
 US 1993-160465 A3 19931202  
 US 1997-895231 A3 19970716

AB Nucleotide sequences derived from genomes of HIV-1 and -2 or of SIV are useful as primers for amplification of the genomes and diagnosis in vitro of infection with one of the viruses. Use of cocktails of primer pairs permits the detection of many types of HIV or SIV and the simultaneous detection of many genes of the same virus. The amplified product(s) may be translated into the coded protein(s) and used to prep. antibodies for immunoassays. Kits for amplification and diagnostic methods are disclosed as are hybridization buffer, antibodies to the translation products, immunogenic compns., and pharmaceutical compns. contg. .gtoreq.1 antisense nucleotide sequence. The sizes of nucleotide fragments synthesized using various primer pairs are listed. Some primer pairs gave products for HIV-1 strains and not SIV and HIV-2, and vice versa.

ST amplification gene retrovirus diagnosis; human immunodeficiency virus gene amplification; simian immunodeficiency virus gene amplification; hybridization primer amplification gene retrovirus

IT Immunochemical analysis  
 (antigens of human and simian immunodeficiency virus detection by, antibodies for)

IT Virucides and Virustats  
 (antisense nucleotides of human and simian immunodeficiency virus, for AIDS treatment)

IT Nucleotides, biological studies  
 RL: BIOL (Biological study)  
 (antisense, of human and simian immunodeficiency virus, for AIDS treatment)

IT Antigens  
 RL: ANT (Analyte); ANST (Analytical study)  
 (detection of, of human and simian immunodeficiency virus, nucleotide sequence amplification in relation to)

IT Protein formation  
 (from amplified nucleotide sequences of human and simian immunodeficiency virus, in infection diagnosis)

IT Blood analysis  
 (human and simian immunodeficiency virus detection in, antibodies to translated products from amplified nucleotide sequences for)

IT Gene and Genetic element, microbial  
 RL: PROC (Process)  
 (of human and simian immunodeficiency virus, amplification of, primers for)

IT Nucleic acid hybridization  
 (of primer sequences in amplification of human and simian immunodeficiency virus genes for diagnosis of infection)

IT Deoxyribonucleic acid formation

- (polymerase chain reaction-mediated, nucleotide primer sequences for, for human and simian immunodeficiency virus infection detection)
- IT Antibodies  
RL: BIOL (Biological study)  
(to translated products from amplified nucleotide sequence of human and simian immunodeficiency virus, for infection diagnosis)
- IT Gene and Genetic element, microbial  
RL: BIOL (Biological study)  
(nef1, nucleotide primer sequences of, of human immunodeficiency virus-1, for gene amplification and detection)
- IT Gene and Genetic element, microbial  
RL: BIOL (Biological study)  
(nef2, nucleotide primer sequence of, of human and simian immunodeficiency viruses, for gene amplification and detection)
- IT Gene and Genetic element, microbial  
RL: BIOL (Biological study)  
(vif1, nucleotide primer sequences of, of human immunodeficiency virus-1, for gene amplification and detection)
- IT Gene and Genetic element, microbial  
RL: BIOL (Biological study)  
(vif2, nucleotide primer sequence of, of human and simian immunodeficiency viruses, for gene amplification and detection)
- IT Gene and Genetic element, microbial  
RL: BIOL (Biological study)  
(vpx, nucleotide primer sequence of, of human and simian immunodeficiency viruses, for gene amplification and detection)
- IT Immunodeficiency  
(acquired immune deficiency syndrome, treatment of, with antisense nucleotide sequences of human and simian immunodeficiency virus)
- IT Virus, animal  
(human immunodeficiency 1, detection of infection with, nucleotide amplification primer sequences for)
- IT Virus, animal  
(human immunodeficiency 2, detection of infection with, nucleotide amplification primer sequences for)
- IT Nucleotides, polymers  
RL: BIOL (Biological study)  
(oligo-, amplification primers, for human and simian immunodeficiency virus detection)
- IT Virus, animal  
(simian immunodeficiency, detection of infection with, nucleotide amplification primer sequences for)
- IT Gene and Genetic element, microbial  
RL: PRP (Properties)  
(env, nucleotide primer sequences of, of human immunodeficiency virus-1, for gene amplification and detection)
- IT Gene and Genetic element, microbial  
RL: PRP (Properties)  
(gag, nucleotide primer sequence of, of human and simian immunodeficiency viruses, for gene amplification and detection)
- IT Gene and Genetic element, microbial  
RL: PRP (Properties)  
(pol, nucleotide primer sequence of, of human and simian immunodeficiency viruses, for gene amplification and detection)
- IT Gene and Genetic element, microbial  
RL: PRP (Properties)  
(vpr, nucleotide primer sequence of, of human and simian immunodeficiency viruses, for gene amplification and detection)
- IT Gene and Genetic element, microbial  
RL: PRP (Properties)  
(vpu, nucleotide primer sequences of, of human immunodeficiency virus-1, for gene amplification and detection)
- IT 9012-90-2, DNA polymerase 9068-38-6, Reverse transcriptase

RL: BIOL (Biological study)  
 (in amplification of sequences of genome of human and simian  
 immunodeficiency virus for detection)

IT 135115-46-7 135115-47-8 135115-50-3  
 135116-20-0 135116-42-6 135116-43-7  
 135116-55-1 135116-57-3 135116-59-5  
 135126-61-3 135317-35-0 135317-39-4  
 135317-40-7

RL: PRP (Properties)  
 (nucleotide primer sequence of env gene of human and/or simian  
 immunodeficiency virus)

IT 135115-29-6 135115-32-1 135115-35-4  
 135115-39-8 135115-41-2 135115-42-3  
 135115-43-4 135115-44-5 135115-48-9  
 135115-49-0 135115-51-4 135115-52-5  
 135115-60-5 135115-63-8 135115-65-0  
 135115-69-4 135115-75-2 135115-77-4

RL: PRP (Properties)  
 (nucleotide primer sequence of gag gene of human and/or simian  
 immunodeficiency virus)

IT 135115-90-1 135115-94-5 135115-96-7  
 135116-12-0 135116-14-2 135116-22-2  
 135317-55-4

RL: PRP (Properties)  
 (nucleotide primer sequence of nef1 gene of human and/or simian  
 immunodeficiency virus)

IT 135115-92-3 135116-13-1 135116-28-8  
 135116-33-5

RL: PRP (Properties)  
 (nucleotide primer sequence of nef2 gene of human and/or simian  
 immunodeficiency virus)

IT 135115-53-6 135115-56-9 135115-87-6  
 135115-88-7 135116-01-7 135116-03-9  
 135116-16-4 135116-17-5 135116-18-6  
 135116-21-1 135116-30-2 135116-31-3  
 135116-32-4 135116-37-9 136072-26-9

RL: PRP (Properties)  
 (nucleotide primer sequence of pol gene of human and/or simian  
 immunodeficiency virus)

IT 135115-99-0 135116-04-0 135116-09-5  
 135317-59-8

RL: PRP (Properties)  
 (nucleotide primer sequence of vif2 gene of human and/or simian  
 immunodeficiency virus)

IT 135115-91-2 135115-97-8

RL: PRP (Properties)  
 (nucleotide primer sequence of vpr gene of human and/or simian  
 immunodeficiency virus)

IT 135116-11-9 135116-36-8 135116-52-8

RL: PRP (Properties)  
 (nucleotide primer sequence of vpu gene of human and/or simian  
 immunodeficiency virus)

IT 135115-45-6 135115-93-4

RL: PRP (Properties)  
 (nucleotide primer sequence of vpx gene of human and/or simian  
 immunodeficiency virus)

L39 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 1991:115059 HCAPLUS

DN 114:115059

TI Antagonists of viral transactivating proteins and their preparation

IN Green, Maurice; Loewenstein, Paul M.

PA St. Louis University, USA

SO PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K039-12

ICS G01N033-48; G01N033-00; C07K013-00; C07K007-10

CC 1-1 (Pharmacology)

Section cross-reference(s): 3, 10, 34

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8912461	A1	19891228	WO 1989-US2404	19890601 <--
	W: AU, JP				
	RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	AU 8937567	A1	19900112	AU 1989-37567	19890601 <--
PRAI	US 1988-207393		19880616	<--	
	US 1989-352688		19890522	<--	
	WO 1989-US2404		19890601	<--	
AB	Antagonists of viral replication are prepd. by (a) producing a peptide fragment contg. an active domain of the transactivating protein of a virus; and (b) making .gtoreq.1 amino acid substitution in the peptide to deactivate the transactivating activity of the peptide while not destroying its ability to bind. These antagonistic peptides are useful for treating viral infections. Cultured human HeLa cells were coinjected with (1) a recombinant plasmid that expresses a functional transactivating protein, human immunodeficiency virus type 1 (HIV-1) tat gene protein (tat-86) and (2) plasmid pHIV-LTRCAT, a recombinant plasmid contg. the target promoter, LTR, upstream of a reporter gene, chloramphenicol acetyltransferase gene (CAT) or with (2) and peptide fragments or mutants of tat-86 along with tat-86 to det. functional domains of tat-86 and antagonists of the transactivating proteins. tat-86 Substituted with alanine at position 41 blocked transactivation 99% at a 4-fold molar excess over that of tat-86. Other antagonistic peptides were also detd.				
ST	virus replication antagonist transactivating protein; human immunodeficiency virus tat protein antagonist				
IT	Ribonucleic acid formation factors				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(antagonists of, detn. and prepn. of, for inhibition of viral replication)				
IT	Peptides, biological studies				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(as transactivating protein antagonists, detn. and prepn. of, for inhibition of viral replication)				
IT	Deoxyribonucleic acid formation				
	(of virus, inhibition of, transactivating protein antagonists detn. and prepn. for)				
IT	Virus				
	(replication of, inhibition of, transactivating protein antagonists detn. and prepn. for)				
IT	Amino acids, biological studies				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(substitution of, in peptides with transactivating activity, in prepn. of transactivating protein antagonist for virus inhibition)				
IT	Virus, animal				
	(adeno-, replication of, inhibition of, transactivating protein antagonists detn. and prepn. for)				
IT	Virus, animal				
	(adenovirus 2, replication of, inhibition of, transactivating protein antagonists detn. and prepn. for)				
IT	Virus, animal				
	(bovine papilloma 1, transactivating protein of, antagonists of, detn. of)				



- IT Phosphoproteins  
RL: BIOL (Biological study)  
(gene E1A, domain 3, antagonists of, of human adenovirus 2, detn. of, for inhibition of viral replication)
- IT Proteins, specific or class  
RL: BIOL (Biological study)  
(gene E5, antagonists of, of bovine papillomavirus 1, detn. of, for inhibition of viral replication)
- IT Ribonucleic acid formation factors  
RL: BIOL (Biological study)  
(gene E7, antagonists of, of human papillomavirus 16, detn. of, for inhibition of viral replication)
- IT Ribonucleic acid formation factors  
RL: BIOL (Biological study)  
(gene tat, antagonists of, of human immunodeficiency virus, for inhibition of viral replication)
- IT Virus, animal  
(hepatitis B, replication of, inhibition of, transactivating protein antagonists detn. and prepn. for)
- IT Virus, animal  
(herpes simplex, replication of, inhibition of, transactivating protein antagonists detn. and prepn. for)
- IT Virus, animal  
(human immunodeficiency, replication of, inhibition of, transactivating protein antagonists detn. and prepn. for)
- IT Virus, animal  
(human immunodeficiency 1, replication of, inhibition of, transactivating protein antagonists detn. and prepn. for)
- IT Virus, animal  
(human papilloma, replication of, inhibition of, transactivating protein antagonists detn. and prepn. for)
- IT Virus, animal  
(human papilloma 16, transactivating protein of, antagonists of, detn. of)
- IT Gene and Genetic element, microbial  
(long terminal repeat, of human immunodeficiency virus, on plasmid pHIV-LTRCAT, tat gene protein antagonists detn. with)
- IT Molecular structure-biological activity relationship  
(mRNA formation-inhibiting, of peptides of tat and E1A gene proteins of AIDS virus and human adenovirus 2)
- IT Plasmid and Episome  
(pE2, early adenovirus gene E2 on, E1A gene protein antagonists detn. with)
- IT Plasmid and Episome  
(pHIV-LTRCAT, LTR regulatory gene of human immunodeficiency virus on, tat gene protein antagonists detn. with)
- IT Ribonucleic acid formation  
(replication, of virus, inhibition of, transactivating protein antagonists detn. and prepn. for)
- IT Gene and Genetic element, microbial  
RL: BIOL (Biological study)  
(E2, of human adenovirus, on plasmid pE2, E1A gene protein antagonists detn. with)
- IT 130244-85-8 130244-86-9 130244-87-0 130244-88-1 130357-01-6  
130357-03-8 130357-12-9 130357-24-3 130357-27-6  
RL: BIOL (Biological study)  
(amino- and carboxy-terminal deletion mutant of tat gene of AIDS virus, transactivating protein antagonists detn. in relation to)
- IT **119683-62-4**, Ribonucleic acid formation factor (**human immunodeficiency** provirus 1 strain **BRU** gene tat reduced)  
RL: BIOL (Biological study)  
(antagonists of, detn. of)
- IT 113040-86-1, Peptide (bovine papilloma virus 1 gene E5 reduced)

RL: BIOL (Biological study)  
(antagonists of, of bovine papillomavirus 1, detn. of)

IT 124448-09-5

RL: BIOL (Biological study)  
(antagonists of, of human adenovirus 2, detn. of)

IT 123174-04-9 130244-84-7 130357-37-8, 37-86-Ribonucleic acid  
formation factor (human immunodeficiency provirus 1  
strain BRU gene tat reduced) 130357-68-5,  
22-86-Ribonucleic acid formation factor (human  
immunodeficiency provirus 1 strain BRU gene tat reduced)

RL: BIOL (Biological study)  
(as amino-terminal deletion mutant of tat gene of AIDS virus,  
transactivating protein antagonists detn. in relation to)

IT 124447-78-5 124447-86-5 124447-87-6 124447-90-1 124447-95-6  
124447-96-7 124448-00-6 124448-01-7 124448-07-3 124448-08-4  
124613-84-9 130357-31-2 130357-33-4 130357-38-9 130357-40-3  
130357-41-4 130357-42-5 130357-43-6

RL: BIOL (Biological study)  
(as mutant of E1A oncogene protein domain 3 of human adenovirus 2,  
transactivating protein antagonists detn. in relation to)

IT 104328-24-7 113230-95-8 113230-96-9 113230-97-0 113230-98-1  
113230-99-2 130244-97-2 130244-98-3 130244-99-4 130245-00-0  
130245-01-1 130245-02-2 130245-03-3 130245-04-4 130245-05-5  
130245-06-6 130245-07-7 130245-08-8 130245-09-9 130245-10-2  
130245-11-3 130245-12-4 130245-13-5 130245-14-6 130245-15-7  
130245-16-8 130245-17-9 130270-21-2 130270-22-3 130357-30-1  
130357-35-6 130357-36-7 130357-39-0 130357-44-7 130357-45-8  
130357-46-9 130357-47-0 130357-48-1

RL: BIOL (Biological study)  
(as mutant of E5 gene protein of bovine papillomavirus 1,  
transactivating protein antagonists detn. in relation to)

IT 130244-89-2 130244-90-5 130244-91-6 130244-92-7 130244-93-8  
130244-94-9 130244-95-0 130244-96-1 130270-20-1 130357-06-1  
130357-07-2 130357-09-4 130357-10-7 130357-11-8 130357-22-1  
130357-28-7 130357-32-3 130357-75-4  
130357-76-5 130357-77-6 130357-78-7  
130357-79-8 130357-80-1 130357-81-2  
130357-82-3 130357-83-4 130357-84-5  
130357-85-6 130357-86-7 130357-87-8  
130357-88-9 130357-89-0

RL: BIOL (Biological study)  
(as mutant of tat gene protein of AIDS virus, transactivating protein  
antagonists detn. in relation to)

L39 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2003 ACS

AN 1989:130703 HCAPLUS

DN 110:130703

TI Autonomous functional domains of chemically synthesized human  
immunodeficiency virus tat trans-activator protein

AU Green, Maurice; Loewenstein, Paul M.

CS Sch. Med., St. Louis Univ., St. Louis, MO, 63110, USA

SO Cell (Cambridge, MA, United States) (1988), 55(6), 1179-88

CODEN: CELLB5; ISSN: 0092-8674

DT Journal

LA English

CC 6-3 (General Biochemistry)

Section cross-reference(s): 1, 4

AB To study HIV-1 virus-encoded trans-activator protein, tat, the 86 amino  
acid tat protein (tat-86) and tat mutant peptides were chem. synthesized.  
Remarkably, tat-86 was rapidly taken up by cells, and produced a massive  
and specific stimulation of HIV-LTR-driven RNA synthesis. Mutant peptides  
of 21-41 amino acids exhibited significant activity. Only 2 regions were  
essential for trans activation; one was suggested to represent an

activation region and the other, a nucleic acid binding or nuclear targeting region. Amino acid substitutions within these regions greatly reduced trans activation, demonstrating the functional significance of these domains. The N-terminal 37 amino acids and exon 2 were not essential. Thus, tat requires only small domains for autonomous function.

ST trans activator protein domain HIV virus; protein tat domain function HIV virus  
 IT Ribonucleic acid formation factors  
 RL: PRP (Properties)  
 (gene tat, functional domains of, of HIV-1 virus)  
 IT Virus, animal  
 (human immunodeficiency 1, trans-activator protein tat of, autonomous functional domains of)  
 IT **119683-62-4P**, Ribonucleic acid formation factor (**human immunodeficiency** provirus 1 strain **BRU** gene tat reduced)  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)

=> d his

(FILE 'HOME' ENTERED AT 18:53:08 ON 27 JAN 2003)  
 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 18:53:16 ON 27 JAN 2003

L1 21 S HIV 1 BRU  
 L2 8 S HUMAN IMMUNODEFICIEN? VIRUS 1 (L) BRU  
 L3 68 S HIV 1 (L) BRU  
 L4 70 S L1-L3  
 L5 93 S (HIV OR HUMAN IMMUNODEFICIEN?) (L) BRU  
 L6 93 S L4, L5  
 E MONCANY M/AU  
 L7 18 S E3-E7  
 E MONTAGNIER L/AU  
 L8 258 S E3, E4, E5  
 L9 1 S L6 AND L7, L8  
 E US6194142/PN  
 L10 1 S E3  
 E US5786177/PN  
 L11 1 S E3  
 E US5688637/PN  
 L12 1 S E3  
 E FR90-393/AP, PRN  
 E FR89-7354/AP, PRN  
 L13 1 S E3, E4  
 E FR89-12371/AP, PRN  
 L14 1 S E3, E4  
 E WO 90-FR393/AP, PRN  
 L15 1 S E3, E4  
 L16 1 S L7, L8 AND L10-L15  
 L17 1 S L7 AND L8  
 L18 2 S L9-L17  
 L19 92 S L6 NOT L18  
 SEL RN L18  
 SEL RN L19  
 DEL SEL  
 SEL RN L18

FILE 'REGISTRY' ENTERED AT 19:01:20 ON 27 JAN 2003

L20 70 S E1-E70

FILE 'HCAPLUS' ENTERED AT 19:01:22 ON 27 JAN 2003  
 SET SMARTSELECT ON

L21           SEL L19 1- RN :       493 TERMS  
              SET SMARTSELECT OFF

FILE 'REGISTRY' ENTERED AT 19:01:24 ON 27 JAN 2003

L22           492 S L21  
L23           68 S L20 AND SQL/FA  
L24           68 S L23 AND NUCLEIC/ES  
L25           418 S L22 AND SQL/FA  
L26           127 S L25 AND NUCLEIC/FS  
L27           4 S L26 AND (HIV OR HUMAN IMMUNODEF?)  
L28           36 S L25 AND BRU  
L29           1 S L26 AND L28  
L30           35 S L28 NOT L27,L29  
L31           20 S L30 AND RNA  
L32           89 S L24,L31,L29  
L33           3 S L27 NOT L32

FILE 'HCAPLUS' ENTERED AT 19:04:51 ON 27 JAN 2003

L34           15 S L32  
L35           4 S L34 AND (PY<=1990 OR PRY<=1990 OR AY<=1990)  
L36           1 S L35 AND L7,L8  
L37           5 S L18,L35,L36  
L38           4 S L37 AND L1-L19  
L39           5 S L37,L38

FILE 'HCAPLUS' ENTERED AT 19:06:18 ON 27 JAN 2003

SEL HIT RN

FILE 'REGISTRY' ENTERED AT 19:07:01 ON 27 JAN 2003

L40           87 S E71-E157  
L41           68 S L40 AND L20  
L42           19 S L40 NOT L41  
L43           19 S L42 AND L28

=> fil reg

FILE 'REGISTRY' ENTERED AT 19:08:12 ON 27 JAN 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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STRUCTURE FILE UPDATES:   26 JAN 2003   HIGHEST RN 481631-75-8  
DICTIONARY FILE UPDATES:   26 JAN 2003   HIGHEST RN 481631-75-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for "BRU" sequences  
Experimental and calculated property data are now available. :  
PROPERTIES for more information. See STNote 27, Searching Pro, from ref 1-5,  
in the CAS Registry File, for complete details: sel L39  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d scan 143

L43   19 ANSWERS   REGISTRY   COPYRIGHT 2003 ACS  
IN    RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
      tat reduced), 41-L-alanine-46-L-alanine-47-L-alanine- (9CI)

SQL 86  
MF C409 H663 N133 O119 S8  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):18

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 46-L-alanine-47-L-alanine- (9CI)

SQL 86  
MF C412 H670 N134 O119 S8  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 41-L-alanine-46-L-alanine- (9CI)

SQL 86  
MF C415 H667 N133 O120 S8  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 22-L-alanine- (9CI)

SQL 86  
MF C416 H667 N133 O123 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 25-L-alanine- (9CI)

SQL 86  
MF C418 H674 N134 O121 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 27-L-alanine- (9CI)

SQL 85  
MF C418 H674 N134 O121 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 34-L-alanine- (9CI)

SQL 86

MF C418 H674 N134 O121 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 22-L-serine- (9CI)  
SQL 86  
MF C418 H674 N134 O122 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN 37-86-RNA formation factor (human immunodeficiency virus 1 strain BRU  
gene tat reduced), 47-L-alanine- (9CI)  
SQL 50  
MF C233 H396 N84 O71 S  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN 22-86-RNA formation factor (human immunodeficiency virus 1 strain BRU  
gene tat reduced) (9CI)  
SQL 65  
MF C311 H510 N90 O91 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 41-L-alanine-47-L-alanine- (9CI)  
SQL 86  
MF C409 H663 N133 O120 S8  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 47-L-alanine- (9CI)  
SQL 86  
MF C412 H670 N134 O120 S8  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 41-L-alanine- (9CI)  
SQL 86  
MF C415 H667 N133 O121 S8  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 46-L-alanine- (9CI)  
SQL 86  
MF C418 H674 N134 O120 S8  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 31-L-alanine- (9CI)  
SQL 86  
MF C418 H674 N134 O121 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 30-L-alanine- (9CI)  
SQL 85  
MF C418 H674 N134 O121 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced), 37-L-alanine- (9CI)  
SQL 86  
MF C418 H674 N134 O121 S7  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN RNA formation factor (human immunodeficiency virus 1 strain BRU gene  
tat reduced) (9CI)  
SQL 86  
MF C418 H674 N134 O121 S8  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L43 19 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN 37-86-RNA formation factor (human immunodeficiency virus 1 strain BRU  
gene tat reduced) (9CI)  
SQL 50  
MF C239 H400 N84 O72 S  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

ALL ANSWERS HAVE BEEN SCANNED

=>

=>

=>

=> d scan 141

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-A-C-A-G-A-T-G-A-A-T-T-A-G-T-T-G-G-T-C-T-G-C) (9CI)  
SQL 23  
MF C227 H285 N85 O128 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):67

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Thymidine, thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')- (9CI)  
SQL 20  
MF C199 H244 N89 O114 P19  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
2'-deoxy- (9CI)  
SQL 17  
MF C167 H211 N61 O104 P16  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-G-G-A-C-T-G-T-C-A-A-T-G-A-T-A-T-A-C-A-G-A-A) (9CI)



SQL 23  
MF C227 H283 N91 O133 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, 2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)

SQL 20  
MF C196 H249 N68 O124 P19  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
2'-deoxy- (9CI)

SQL 17  
MF C166 H210 N62 O103 P16  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-A-T-G-G-C-A-G-T-C-T-A-G-C-A-G-A-A-G-A-A-G-A) (9CI)  
SQL 23  
MF C227 H280 N100 O129 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Adenosine, thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-

(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)

SQL 20  
MF C196 H248 N71 O118 P19  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Adenosine, 2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)

SQL 20  
MF C190 H247 N62 O121 P19  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-G-G-A-C-T-G-T-C-A-A-T-G-A-C-A-T-A-C-A-G-A-A) (9CI)  
SQL 23  
MF C226 H282 N92 O132 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Adenosine, thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)

SQL 20  
MF C195 H249 N66 O121 P19  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN DNA, d(T-A-T-G-G-A-G-G-A-G-G-A-A-A-A-G-A-G-A-T-G-G-A-T-A-G-T) (9CI)  
SQL 27  
MF C270 H330 N120 O154 P26  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-T-C-T-G-T-A-T-G-T-C-A-T-T-G-A-C-T-G-T-C-C-A) (9CI)  
SQL 23  
MF C225 H287 N75 O142 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, 2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)  
SQL 20  
MF C194 H247 N70 O121 P19  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(G-A-T-T-A-T-G-G-A-A-A-A-C-A-G-A-T-G-G-C-A-G-G-T-G-A-T) (9CI)  
SQL 27  
MF C268 H331 N113 O156 P26  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-T-C-T-G-T-A-T-G-T-C-A-T-T-G-A-C-A-G-T-C-C-A) (9CI)  
SQL 23  
MF C225 H286 N78 O140 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, 2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-

2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxy- (9CI)

SQL 20  
MF C194 H243 N82 O112 P19  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(G-G-G-G-C-A-C-A-A-T-A-A-T-G-T-A-T-G-G-G-A-A-T-T-G-G) (9CI)  
SQL 26  
MF C258 H319 N108 O152 P25  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(G-C-A-G-A-C-C-A-A-C-T-A-A-T-T-C-A-T-C-T-G-T-A) (9CI)  
SQL 23  
MF C224 H283 N85 O134 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, 2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)

SQL 20  
MF C193 H242 N83 O113 P19  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-T-G-G-G-T-G-G-C-A-A-G-T-G-G-T-C-A-A-A-A-A-G-T-A-G) (9CI)  
SQL 26  
MF C258 H318 N111 O150 P25  
CI MAN

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(C-C-T-T-C-T-T-C-C-T-T-T-T-C-T-A-A-G-T-A-T-A-T) (9CI)  
SQL 23  
MF C224 H265 N67 O144 P22  
CI MAN

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Adenosine, 2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)  
SQL 20  
MF C190 H248 N59 O123 P19  
CI MAN

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-T-G-G-G-T-G-G-C-A-A-G-T-G-G-T-C-A-A-A-A-G-T-A-C) (9CI)  
SQL 26  
MF C257 H318 N109 O150 P25  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(C-T-T-A-A-G-C-T-C-C-T-C-T-A-A-A-A-G-C-T-C-T-A) (9CI)  
SQL 23  
MF C223 H284 N80 O136 P22  
CI MAN

## \*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Adenosine, 2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-

(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)  
SQL 20  
MF C189 H247 N60 O122 P19  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(C-T-A-C-T-T-T-T-T-G-A-C-C-A-C-T-T-G-C-C-A-C-C-C-A-T) (9CI)  
SQL 26  
MF C250 H322 N83 O158 P25  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-C-T-A-C-A-G-A-T-C-A-T-C-A-A-T-A-T-C-C-C-A-A) (9CI)  
SQL 23  
MF C223 H282 N86 O141 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, 2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxy- (9CI)  
SQL 19  
MF C189 H234 N78 O138 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(G-G-G-T-T-C-T-T-G-G-G-A-G-C-A-G-C-A-G-G-A-A-G-C-A-C) (9CI)  
SQL 26  
MF C255 H317 N108 O152 P25  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-A-A-G-C-A-A-G-G-G-A-A-A-T-A-A-G-T-G-C-T-A) (9CI)  
SQL 22  
MF C218 H268 N97 O122 P21  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, 2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxy- (9CI)  
SQL 19  
MF C189 H234 N78 O114 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(C-C-A-A-T-T-C-C-C-A-T-A-C-A-T-T-A-T-T-G-T-G-C-C-C-C) (9CI)  
SQL 26  
MF C250 H321 N86 O156 P25  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-A-G-C-A-C-T-T-A-T-T-T-C-C-C-T-T-G-C-T-T-T) (9CI)  
SQL 22  
MF C214 H276 N65 O136 P21  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, thymidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxy- (9CI)  
SQL 19

MF C189 H234 N78 O110 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(G-T-G-C-T-T-C-C-T-G-C-T-G-C-T-C-C-C-A-A-G-A-A-C-C-C) (9CI)  
SQL 26  
MF C249 H319 N90 O156 P25  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(C-C-T-T-T-G-T-G-T-G-C-T-G-G-T-A-C-C-C-A-T-G) (9CI)  
SQL 22  
MF C214 H273 N74 O136 P21  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, 2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-  
2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-  
deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-  
deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxyadenylyl-(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-  
deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxy-  
(9CI)  
SQL 19  
MF C188 H229 N91 O103 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(G-T-A-A-G-T-A-G-T-A-C-A-T-G-T-A-A-T-G-C-A-A-C-C-T) (9CI)  
SQL 25  
MF C246 H308 N96 O146 P24  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(C-A-T-G-G-G-T-A-C-C-A-G-C-A-C-A-C-A-A-A-G-G) (9CI)



SOL 19

MF C187 H230 N86 O102 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-A-T-T-T-C-T-G-G-G-T-C-C-C-C-T-C-C-T-G-A-G-G-A-T) (9CI)  
SQL 25  
MF C243 H309 N87 O152 P24  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-C-C-A-T-T-T-C-T-T-G-C-T-C-T-C-C-T-C-T-G-T) (9CI)  
SQL 22  
MF C212 H276 N61 O140 P21  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)  
SQL 19  
MF C186 H240 N54 O122 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-A-A-A-G-C-C-A-G-G-A-A-T-G-G-A-T-G-G-A-C-C-A-A) (9CI)  
SQL 24  
MF C236 H292 N103 O135 P23  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-A-A-G-T-C-C-C-C-A-G-C-G-G-A-A-A-G-T-C-C-C) (9CI)  
SQL 22  
MF C212 H267 N88 O125 P21

CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Adenosine, 2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxy- (9CI)  
SQL 19  
MF C186 H232 N78 O109 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-G-C-A-G-A-A-G-A-C-A-G-T-G-G-C-C-A-T-G-A-G-A-G) (9CI)  
SQL 24  
MF C236 H291 N106 O135 P23  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-A-A-A-G-A-A-A-A-G-G-G-G-G-G-A-C-T-G-G-A) (9CI)  
SQL 21  
MF C209 H254 N100 O115 P20  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Guanosine, 2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-  
2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-  
deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-  
deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxyguanylyl-(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-  
deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxycytidylyl-(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-  
deoxycytidylyl-(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxy-  
(9CI)  
SQL 19  
MF C185 H229 N85 O104 P18  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-G-C-T-G-A-G-A-C-A-G-C-A-G-G-G-A-C-T-T-T-C-C-A) (9CI)  
SQL 24  
MF C234 H293 N96 O139 P23  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(C-C-T-G-G-A-G-G-G-G-A-G-G-A-G-G-A-G-G-A) (9CI)  
SQL 21  
MF C208 H254 N98 O120 P20  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Thymidine, 2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-  
deoxycytidylyl-(3'.fwdarw.5')- (9CI)  
SQL 19  
MF C181 H234 N62 O113 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-A-A-A-G-C-C-A-G-G-A-A-T-G-G-A-T-G-C-C-C-C-A-A) (9CI)  
SQL 24  
MF C234 H292 N99 O136 P23  
CI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-G-A-G-A-C-T-C-T-T-G-C-G-G-G-C-G-C-G-T-G) (9CI)  
SQL 21  
MF C205 H257 N83 O125 P20  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Thymidine, 2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')- (9CI)  
SQL 19  
MF C181 H233 N65 O112 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-T-G-G-T-C-C-A-T-C-C-A-T-T-C-C-T-G-G-C-T-T-T-A) (9CI)  
SQL 24  
MF C233 H299 N76 O149 P23  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(G-A-T-A-G-A-T-G-G-A-A-C-A-A-G-C-C-C-C-A-G) (9CI)  
SQL 21  
MF C205 H255 N89 O118 P20  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Thymidine, 2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-  
thymidylyl-(3'.fwdarw.5')-thymidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxycytidylyl-(3'.fwdarw.5')- (9CI)  
SQL 19  
MF C180 H233 N63 O112 P18  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-T-G-G-G-C-C-A-T-C-C-A-T-T-C-C-T-G-G-C-T-T-T-A) (9CI)

SQL 24  
MF C233 H298 N79 O148 P23  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(T-C-C-A-G-T-C-C-C-C-C-T-T-T-T-C-T-T-T) (9CI)  
SQL 21  
MF C201 H263 N57 O133 P20  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Thymidine, 2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-  
(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-  
(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-  
(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-  
(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-  
(5'.fwdarw.3')-thymidylyl-(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-  
2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-  
deoxyguanylyl-(5'.fwdarw.3')- (9CI)  
SQL 18  
MF C175 H219 N74 O104 P17  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN DNA, d(A-T-A-T-A-C-T-T-A-G-A-A-A-A-G-G-A-A-G-A-A-G-G) (9CI)  
SQL 23  
MF C229 H281 N101 O128 P22  
CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS  
IN Thymidine, thymidylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-  
deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-thymidylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyadenylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')-2'-deoxyguanylyl-(3'.fwdarw.5')-2'-deoxycytidylyl-  
(3'.fwdarw.5')-2'-deoxyadenylyl-(3'.fwdarw.5')-2'-deoxyguanylyl-  
(3'.fwdarw.5')- (9CI)  
SQL 20  
MF C199 H244 N89 O115 P19

CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

L41 68 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Thymidine, 2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-  
(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-  
(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-  
(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-  
(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-  
(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxycytidylyl-  
(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-  
(5'.fwdarw.3')-2'-deoxycytidylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-  
(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')- (9CI)

SQL 18

MF C174 H218 N75 O103 P17

CI MAN

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*\* USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE \*\*\*

ALL ANSWERS HAVE BEEN SCANNED